

**Figure 1**

Figure 1 consists of two panels, A and B, showing histograms of the number of non-zero elements in the sparse matrices  $\tilde{A}$  and  $\tilde{B}$ , respectively. The x-axis for both panels is labeled "Number of non-zero elements" and ranges from 0 to 100,000. The y-axis is labeled "Frequency" and ranges from 0 to 10.

Panel A shows the distribution for  $\tilde{A}$ . The histogram has a peak frequency of approximately 9 at around 20,000 non-zero elements. There are several smaller peaks at higher values, up to 80,000.

Panel B shows the distribution for  $\tilde{B}$ . The histogram has a much narrower distribution, peaking at a frequency of approximately 7 at around 10,000 non-zero elements. Most of the data points are concentrated below 20,000 non-zero elements.

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